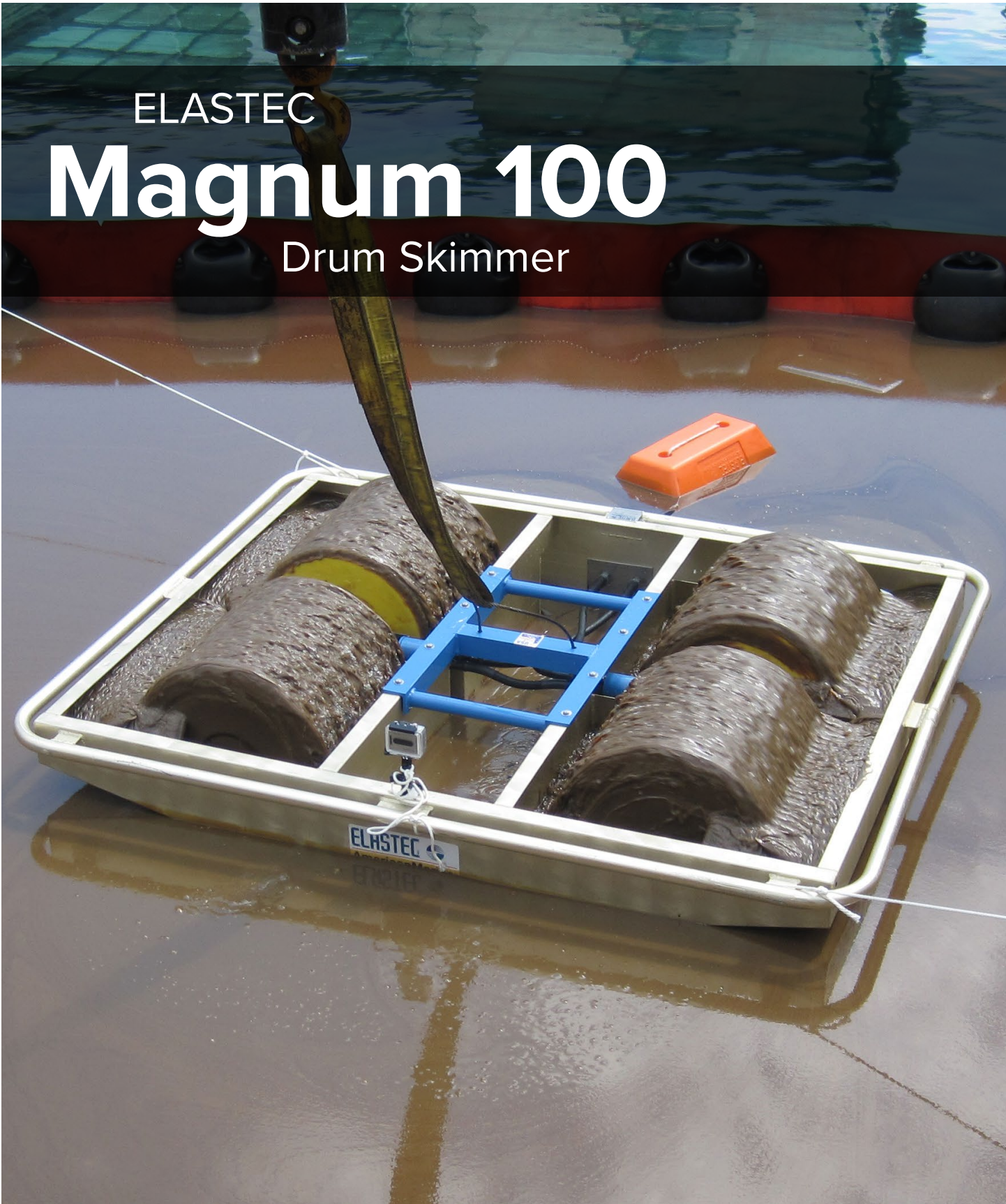


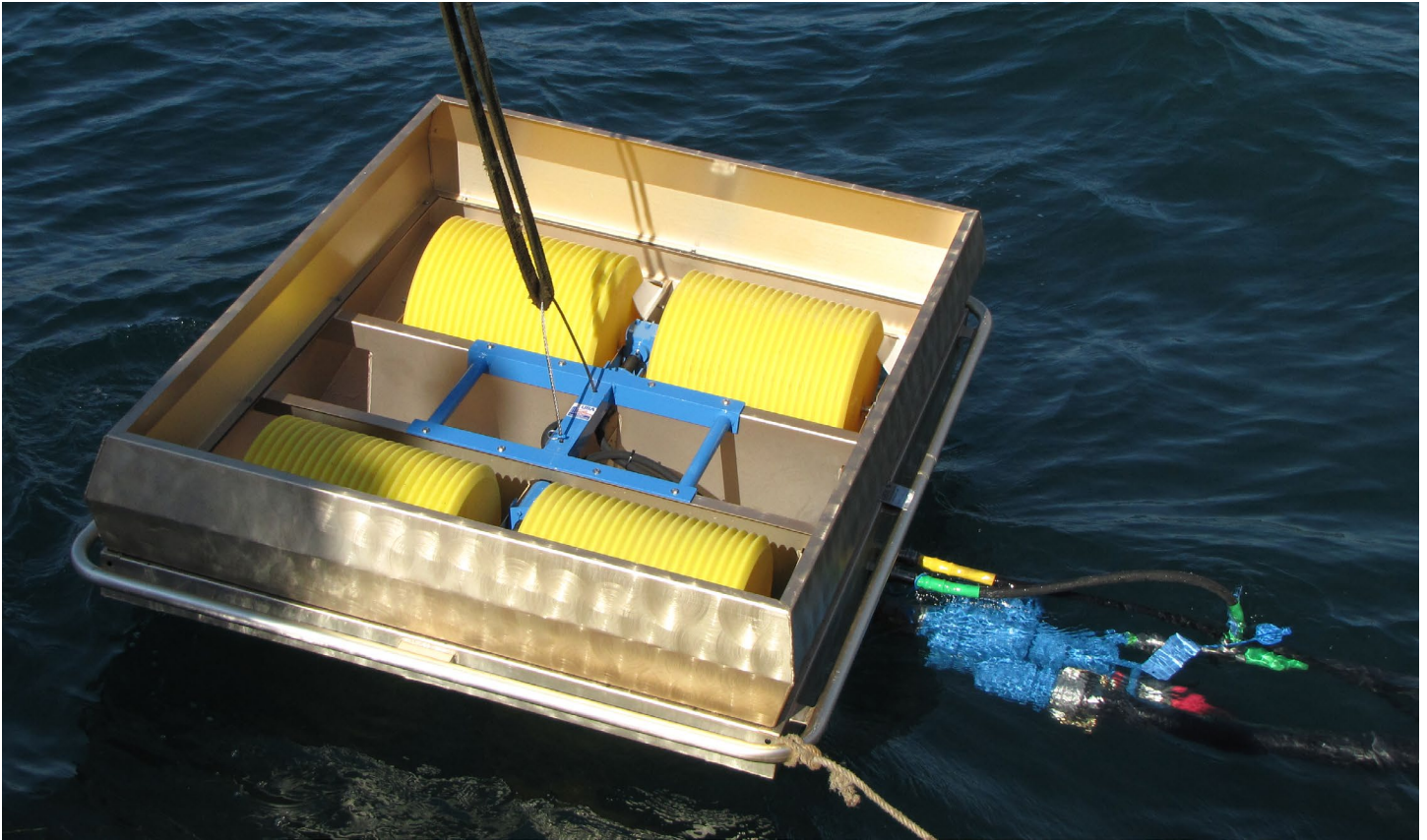


ELASTEC

Magnum 100

Drum Skimmer

The image shows a white rectangular floating drum skimmer with four large rotating drums. A blue metal frame is mounted on top, and a yellow hose is connected to one of the drums. An orange buoy is floating nearby. The skimmer is on a body of water, and a red boat is visible in the background. The ELASTEC logo is visible on the side of the skimmer.



The Magnum 100 is another well proven drum skimmer from Elastec. It is suitable for both oil spill response and industrial applications. The lightweight design combined with the stability and high buoyancy provided by the four drums enable the Magnum 100 to be used in harbors and coastal waters as well as inland areas such as rivers and lakes.

The original design concept was patented in 1990. Thousands of Elastec drum skimmers have been sold worldwide and proven themselves both in emergency response but also industrial applications. The fact that the skimmer is suitable for continuous duty is a testament to the design concept.

Elastec drum skimmers are able to recover a wide range of oils and sheen, from diesel to crude and fuel oils.

The skimmer features heavy-duty high density Polyethylene drums, which are resistant to impact and abrasion. They not only serve as the rotating oleophilic element that selectively recovers the oil from water, they also provide buoyancy for the skimmer. The skimmer can draw oil in from all directions. The drum material is resistant to many chemicals found in industrial pits, sumps, separators and tanks. The self-adjusting wiper blades recover oil from the face and side of the drums as they rotate. The wipers can easily be replaced without tools.

Drive is provided for the drums by a pair of centrally mounted gearboxes (provides even weight distribution), these gearboxes provide the torque necessary to turn the drums in heavy oils as well as allowing for fine control of the drum speed. The drum shafts are supported by self-aligning bearings. This is all mounted in a lightweight anodized marine grade aluminum frame with open and steeply inclined pathways that direct recovered oil to the central collection sump.

The open design facilitates cleaning and removal of any debris or trash. A removable trash screen prevents larger items entering the recovered oil pump.

The Magnum 100 is capable of recovering both light and heavy oils with very low water content - typically around only 3%. It may be fitted with either an air or hydraulic drive motor. We offer a choice of pumps to suit the application.

The skimmer may be fitted with steam coils as an option to provide heat that warms the oil that's being recovered (to aid pumping and prevent freezing) as well as melting ice surrounding the skimmer.

The Magnum 100 is offered with either the original smooth drums or the latest patented Grooved Drums which can achieve higher oil recovery rates. The Grooved Drum design has been extensively tested by the Ohmsett test facility and researched by the University of California, Santa Barbara. Test reports are available on request.

The skimmer may be supplied with pneumatic or hydraulic motor with a choice of recovered oil pumps - air operated diaphragm, hydraulic driven submersible (E150 or ES400) or diesel driven lobe pump. Hydraulically operated skimmers may be delivered with a diesel or electric driven hydraulic power pack.

Elastec pneumatic skimmers are fitted with air motors that conform to EC Directive 94/9EC (ATEX 100a) for zones 1 and 2 (Group II, category 2, Gas and Dust Atmospheres) and a maximum surface temperature of 275 F / 135 C.

Specification	
Smooth Drum Nameplate Capacity	100 gpm / 23 m ³ per hour
Grooved Drum Nameplate Capacity*	251 gpm / 57 m ³ per hour
Number of Drums	4 (Polyethylene HD)
Frame:	Anodized marine grade aluminum
Handle:	Fitted around the skimmer perimeter
Wiper Blades:	Self-adjusting (spring loaded, spares included)
Wiper Retainers:	Mounted with stainless steel pins & springs
Dimensions:	71 x 57 x 16 inches / 1.8 x 1.4 x 0.4 m (without wavebreaker)
Weight:	202 lb / 92 kg without pump
Drive:	Hydraulic or pneumatic
Max Operating Temp:	130°F / 54°C
Sump Coupling:	4 inch female camlock
Lifting Point:	Certified wire
Pneumatic Model Air Requirements	
Skimmer Only:	35 cfm, 100 psi minimum
Skimmer and M4 Diaphragm Pump:	35 to 100 cfm, 100 psi

*Nameplate capacity verified by the US Coast Guard, according to ASTM F2709



Diesel Hydraulic Configurations

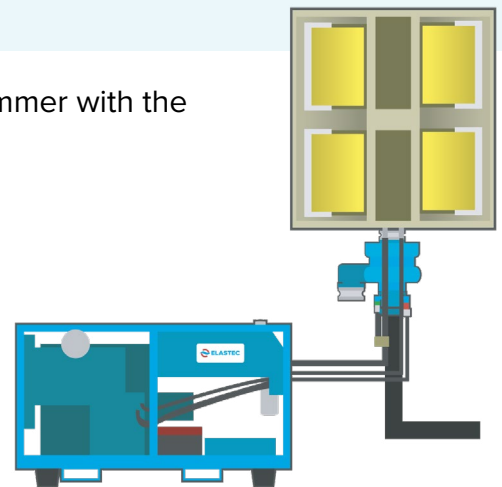
D10 Power Unit + E150 Pump

The ELASTEC D10 Diesel Hydraulic Power Unit is paired with the ELASTEC E150 submersible pump.



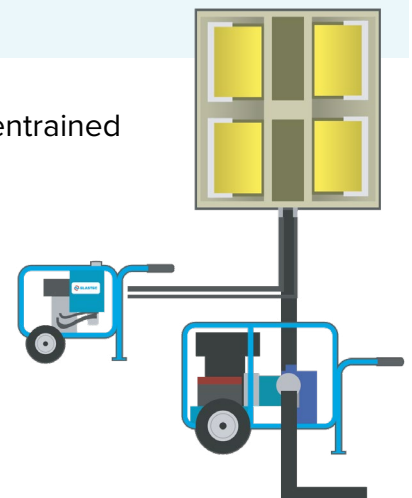
D22 Power Unit + ES400 Pump

The ELASTEC D22 Diesel Hydraulic Power Unit can run the skimmer with the ES400 submersible pump.



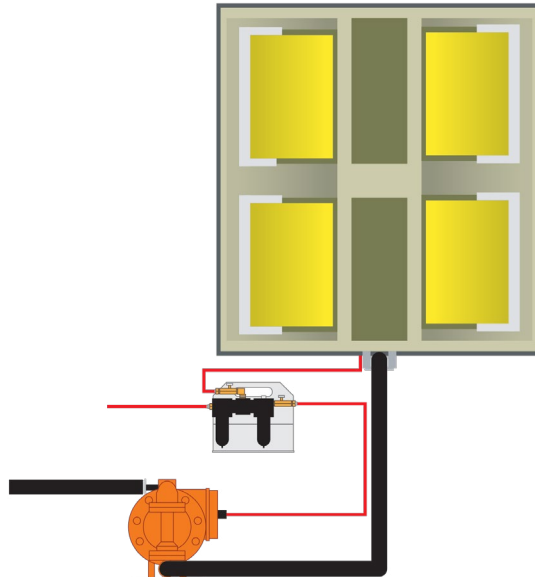
D7 Power Unit + Lobe Pump

Our diesel driven Lobe pump has the ability to handle heavy oils with entrained solids. The skimmer is powered with the D7 powerpack.

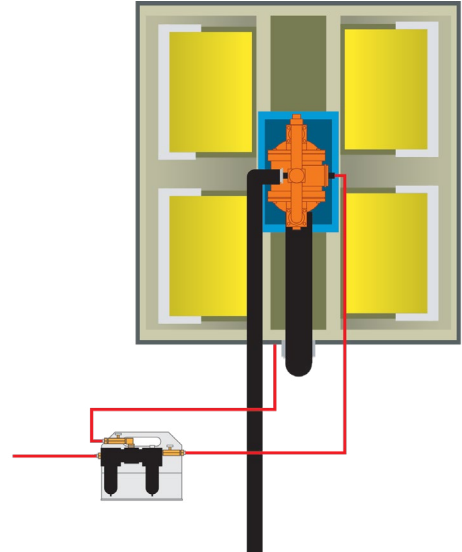


Pneumatic Configurations

The Magnus 100 skimmer can be powered by compressed air. Fitted with two air motors, coupled to the drums with a gearbox, the drums can be turned at low speeds if necessary to recover light oil layers. The recovered oil pump (air operated diaphragm), can be remotely located (on the pond or river bank), alternatively it can be mounted on the skimmer itself, for high head applications



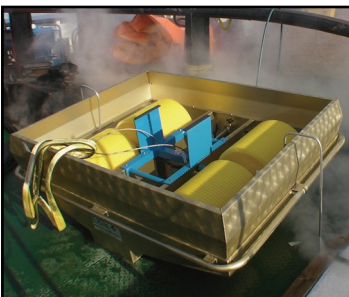
Remote Option



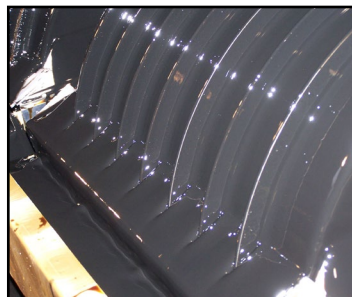
Skimmer-mounted Option

Optional Extras

Wave breaker (to increase skimmer freeboard), spares kits, steam coils, disc and brush inserts, smooth or grooved drums, aluminum storage container, shade cover.



Steam Coils



Disc Drum Insert



Brush Drum Insert



Shade Cover